

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640780

Luminaire Tested: GWS-SA5E-750-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32706.6 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

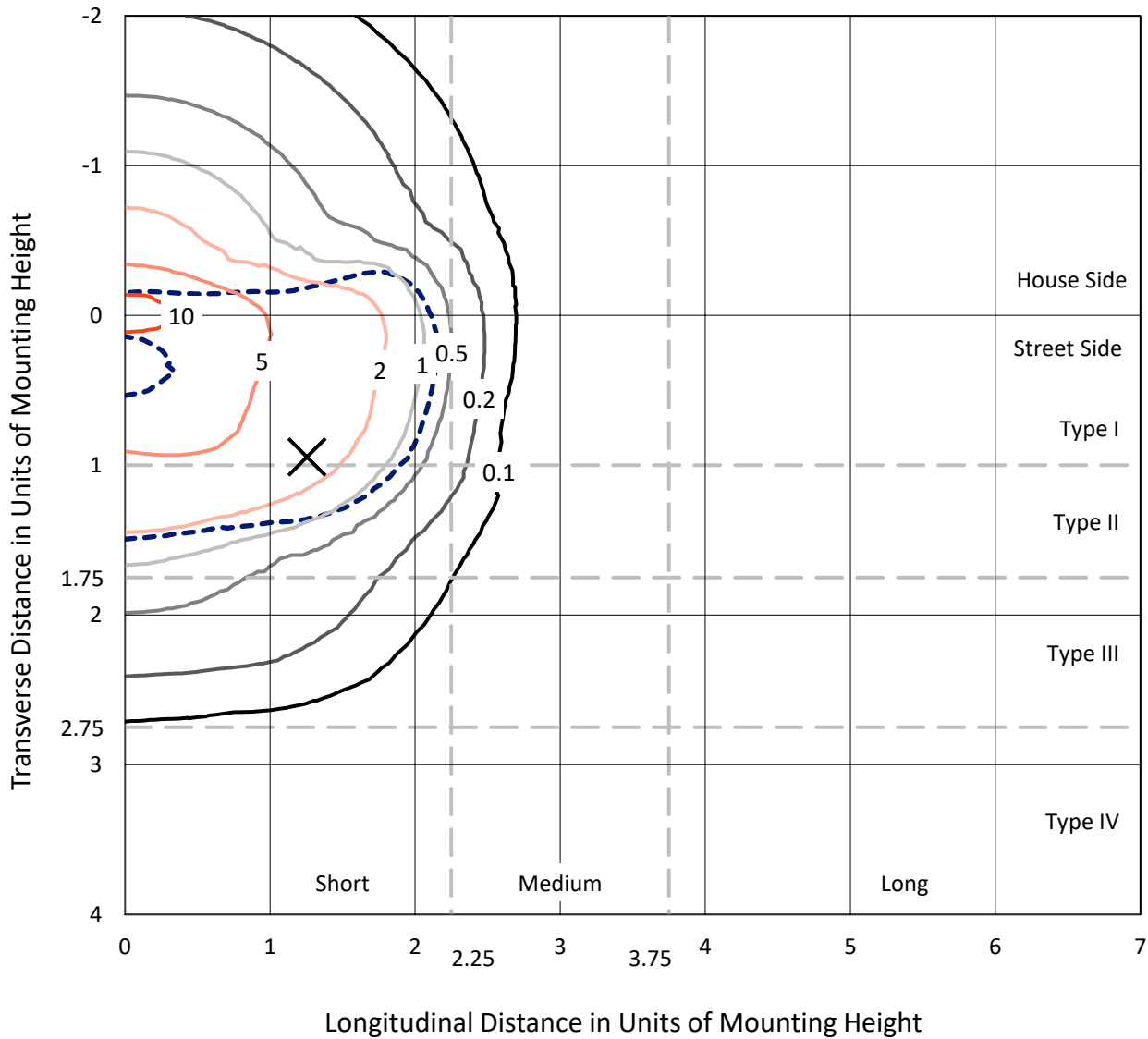
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

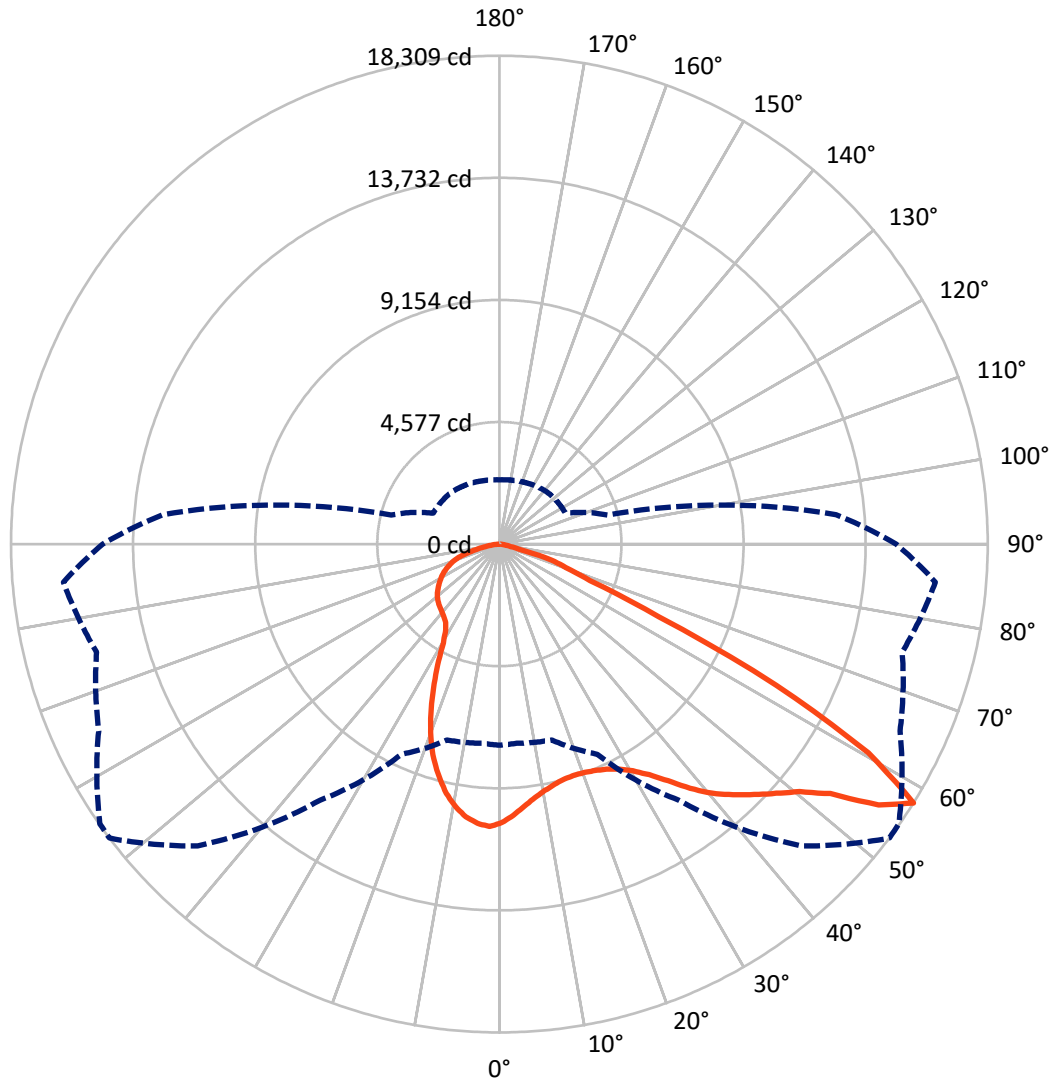
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA5E-750-U-SL2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10226.2	0.0	10226.2
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	22480.5	0.0	22480.5
	% Fixture	68.7	0.0	68.7
Total	Lumens	32706.6	0.0	32706.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.5	2.9
10°-20°	2477.8	7.6
20°-30°	3650.7	11.2
30°-40°	5110.0	15.6
40°-50°	6717.5	20.5
50°-60°	7876.3	24.1
60°-70°	4640.0	14.2
70°-80°	1154.3	3.5
80°-90°	135.4	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32706.6	100.0
0°-180°	32706.6	100.0

Coefficient of Utilization



REPORT NUMBER: P640780

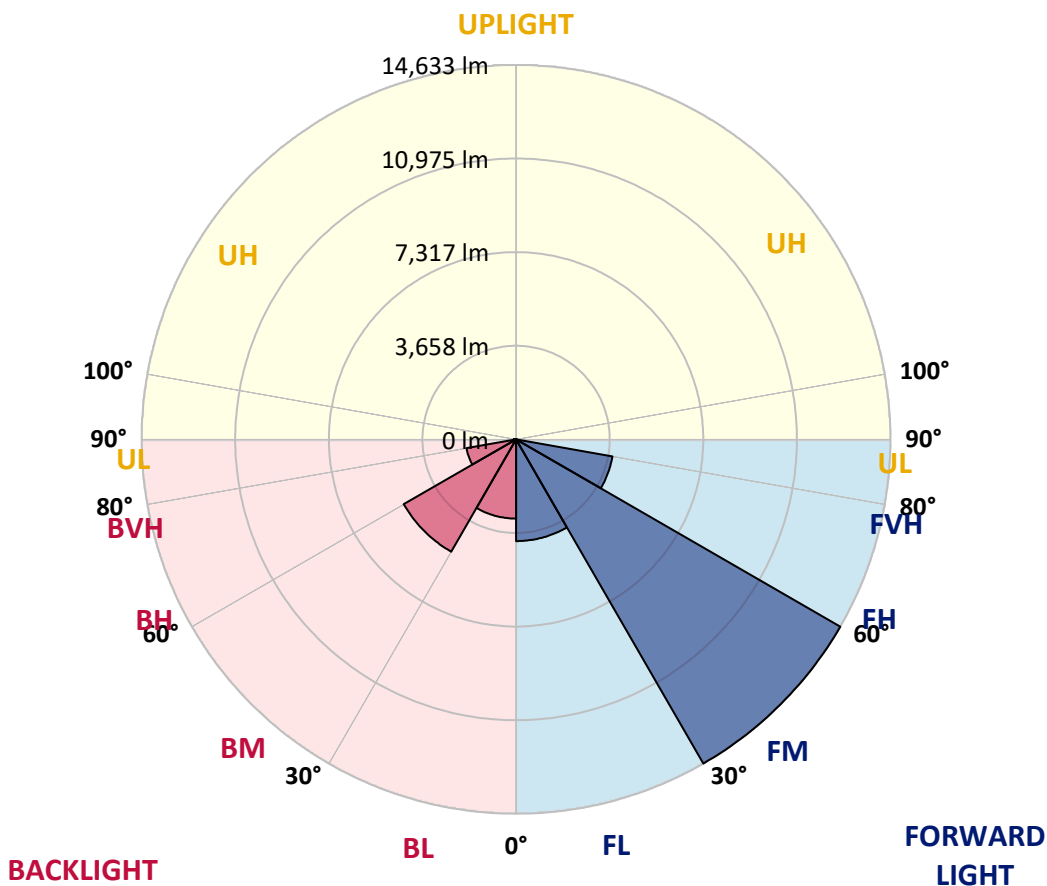
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3976.5	12.2			
FM (30°-60°)	14633.2	44.7			
FH (60°-80°)	3825.4	11.7			G2/5000
FVH (80°-90°)	45.3	0.1			G1/100
BL (0°-30°)	3096.5	9.5	B4/5000		
BM (30°-60°)	5070.6	15.5	B4/8500		
BH (60°-80°)	1968.9	6.0	B3/2500		G3/2500
BVH (80°-90°)	90.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P640780

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1
2.5°	9844.0	9871.5	9877.0	9962.4	9967.9	10091.7	10174.3	10157.8	10243.1	10347.8	10430.3
5°	9373.3	9376.0	9403.5	9505.4	9560.5	9722.9	9860.5	9860.5	10025.7	10240.4	10424.8
7.5°	8985.1	8982.4	9007.1	9120.0	9210.8	9406.3	9593.5	9615.5	9846.7	10160.6	10460.6
10°	8624.5	8643.8	8671.3	8808.9	8924.6	9166.8	9389.8	9425.6	9717.4	10105.5	10510.2
12.5°	8393.3	8396.0	8437.3	8591.5	8740.1	8998.9	9232.9	9276.9	9612.8	10053.2	10546.0
15°	8244.6	8247.4	8291.4	8462.1	8635.5	8897.0	9136.5	9186.1	9552.2	10044.9	10614.8
17.5°	8178.6	8175.8	8217.1	8387.8	8577.7	8850.2	9106.2	9166.8	9579.7	10108.3	10735.9
20°	8178.6	8181.3	8203.3	8357.5	8550.2	8839.2	9136.5	9210.8	9687.1	10251.4	10923.1
22.5°	8294.2	8305.2	8316.2	8420.8	8572.2	8855.7	9216.4	9315.5	9918.3	10490.9	11168.1
25°	8519.9	8522.7	8533.7	8619.0	8687.8	8902.5	9348.5	9497.1	10278.9	10840.5	11476.4
27.5°	8822.7	8861.2	8872.3	8927.3	8927.3	9018.2	9554.9	9769.7	10766.2	11344.3	11870.0
30°	9246.6	9260.4	9279.7	9340.2	9274.2	9235.6	9857.8	10133.0	11330.5	11952.6	12343.5
32.5°	9618.3	9648.5	9753.1	9852.3	9733.9	9612.8	10303.7	10628.5	11872.8	12585.8	12847.3
35°	9934.8	10009.2	10210.1	10430.3	10347.8	10226.6	10895.6	11234.2	12318.8	13040.0	13293.2
37.5°	10317.5	10375.3	10650.6	11008.4	11082.7	11024.9	11616.8	11859.0	12616.1	13155.6	13535.5
40°	10705.6	10793.7	11148.8	11644.3	11927.9	11969.1	12283.0	12445.4	12717.9	12929.9	13488.7
42.5°	11102.0	11253.4	11740.7	12318.8	12822.5	12916.1	12844.5	12913.4	12684.9	12618.8	13271.2
45°	11586.5	11765.4	12316.0	13053.7	13717.2	13863.1	13395.1	13331.8	12679.4	12500.4	13136.3
47.5°	12159.1	12338.0	12863.8	13722.7	14570.5	14677.9	13959.4	13843.8	12872.1	12682.1	13318.0
50°	12665.6	12789.5	13260.2	14220.9	15366.1	15429.4	14581.6	14441.2	13351.1	13185.9	13885.1
52.5°	12150.8	12137.1	12632.6	13816.3	15779.0	16541.5	15539.5	15404.6	14276.0	14022.7	14763.2
55°	10309.2	10152.3	10595.5	11759.9	14625.6	17529.8	17257.3	16987.5	15509.2	14865.1	15586.3
57.5°	7537.2	7493.1	7600.5	8693.3	11715.9	15999.2	18308.8	18284.1	16574.6	15635.9	16406.7
60°	5893.7	5827.7	5541.4	5571.7	7985.9	12497.7	15889.1	16618.6	17235.2	16098.3	16979.2
62.5°	5233.1	5183.5	5034.9	4624.7	4756.8	8379.5	11647.1	12316.0	15060.5	14218.2	14584.3
65°	4332.9	4319.1	4443.0	4426.5	3986.0	4627.4	6573.7	7248.1	9469.6	9588.0	9469.6
67.5°	3149.2	3124.4	3438.2	4057.6	3837.4	3493.3	3664.0	3898.0	4855.9	4360.4	3925.5
70°	2048.1	2012.3	2194.0	2931.7	3435.5	3044.6	2639.9	2601.4	2670.2	1659.9	1794.8
72.5°	1373.6	1332.4	1329.6	1613.1	2075.6	2050.8	2045.3	2026.1	1808.6	1310.3	1453.5
75°	765.3	732.2	724.0	696.5	743.3	757.0	806.6	834.1	902.9	993.8	1101.1
77.5°	129.4	126.6	159.7	203.7	280.8	360.6	446.0	470.7	580.8	688.2	757.0
80°	71.6	74.3	96.3	118.4	156.9	214.7	275.3	291.8	357.9	415.7	470.7
82.5°	38.5	38.5	49.6	63.3	85.3	112.9	148.7	162.4	206.5	242.2	280.8
85°	13.8	13.8	19.3	24.8	35.8	46.8	57.8	66.1	90.8	123.9	140.4
87.5°	0.0	0.0	0.0	0.0	2.8	5.5	11.0	11.0	13.8	24.8	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1	10444.1
2.5°	10499.2	10424.8	10526.7	10573.5	10590.0	10601.0	10529.4	10479.9	10463.4	10411.1	10380.8
5°	10537.7	10488.1	10584.5	10584.5	10515.7	10444.1	10298.2	10196.3	10124.8	10039.4	10025.7
7.5°	10603.8	10568.0	10620.3	10512.9	10339.5	10146.8	9893.5	9695.3	9535.7	9431.1	9433.8
10°	10691.9	10647.8	10606.5	10367.0	10050.5	9695.3	9307.2	9018.2	8753.9	8632.8	8566.7
12.5°	10749.7	10686.3	10512.9	10116.5	9651.3	9175.1	8627.3	8197.8	7815.2	7641.8	7628.0
15°	10821.2	10705.6	10358.8	9791.7	9144.8	8495.1	7790.4	7193.1	6675.5	6405.8	6392.0
17.5°	10914.8	10724.9	10174.3	9420.1	8610.7	7652.8	6766.4	6014.9	5464.3	5255.1	5290.9
20°	11047.0	10746.9	9965.1	9007.1	7947.3	6694.8	5590.9	4900.0	4688.0	4674.2	4646.7
22.5°	11195.6	10760.7	9733.9	8544.7	7143.5	5673.5	4619.2	4324.6	4321.9	4390.7	4407.2
25°	11363.5	10771.7	9472.4	8005.1	6273.6	4655.0	4085.1	3997.1	4065.9	4195.3	4211.8
27.5°	11578.3	10793.7	9155.8	7413.3	5348.7	4021.8	3790.6	3768.6	3851.2	3972.3	3966.8
30°	11894.8	10873.5	8820.0	6733.3	4399.0	3721.8	3611.7	3614.4	3647.5	3705.3	3713.5
32.5°	12216.9	10997.4	8492.4	5968.1	3853.9	3551.1	3501.6	3496.0	3496.0	3520.8	3526.3
35°	12522.5	11137.8	8137.3	5169.7	3589.6	3452.0	3419.0	3402.5	3394.2	3388.7	3380.4
37.5°	12693.1	11206.6	7790.4	4382.4	3449.3	3385.9	3352.9	3330.9	3300.6	3278.6	3273.1
40°	12618.8	11126.8	7388.5	3793.4	3363.9	3322.6	3284.1	3253.8	3212.5	3193.2	3182.2
42.5°	12371.1	10879.0	6950.8	3515.3	3295.1	3253.8	3207.0	3157.5	3129.9	3113.4	3110.7
45°	12109.5	10579.0	6422.3	3352.9	3229.0	3179.5	3124.4	3069.4	3039.1	3030.8	3028.1
47.5°	12101.3	10430.3	5860.7	3223.5	3149.2	3099.6	3030.8	2975.8	2942.7	2931.7	2920.7
50°	12464.7	10581.7	5227.6	3110.7	3066.6	3014.3	2937.2	2876.7	2835.4	2821.6	2818.9
52.5°	13218.9	11151.6	4660.5	2997.8	2956.5	2895.9	2832.6	2772.1	2722.5	2697.7	2695.0
55°	14033.7	11875.6	4308.1	2882.2	2827.1	2774.8	2717.0	2650.9	2595.9	2557.3	2551.8
57.5°	14876.1	12665.6	4200.8	2736.3	2695.0	2659.2	2590.4	2518.8	2455.5	2419.7	2411.4
60°	15569.8	13345.5	4401.7	2582.1	2560.1	2513.3	2450.0	2381.2	2337.1	2309.6	2304.1
62.5°	13034.5	10865.3	3553.9	2414.2	2414.2	2364.7	2293.1	2243.5	2213.2	2194.0	2188.5
65°	8272.1	6727.8	2425.2	2246.3	2243.5	2177.5	2116.9	2083.9	2070.1	2039.8	2034.3
67.5°	3603.4	3074.9	2072.9	2075.6	2064.6	1993.0	1932.5	1907.7	1880.2	1847.1	1844.4
70°	1869.1	1904.9	1855.4	1885.7	1866.4	1781.1	1723.2	1684.7	1626.9	1593.9	1596.6
72.5°	1508.5	1547.1	1602.1	1648.9	1607.6	1538.8	1448.0	1401.2	1326.8	1291.1	1293.8
75°	1150.7	1192.0	1244.3	1293.8	1260.8	1175.4	1117.6	1070.8	985.5	944.2	952.5
77.5°	792.8	814.8	878.1	875.4	864.4	839.6	754.3	699.2	611.1	561.6	567.1
80°	492.8	506.5	536.8	550.6	545.1	512.0	443.2	401.9	349.6	319.3	322.1
82.5°	297.3	305.6	333.1	335.8	333.1	308.3	256.0	225.7	192.7	176.2	176.2
85°	151.4	156.9	173.4	173.4	156.9	132.1	118.4	104.6	85.3	77.1	77.1
87.5°	41.3	41.3	52.3	44.0	35.8	33.0	16.5	13.8	5.5	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)